
Product Data Sheet

Product Name: CFTR corrector 4

Cat. No.: GC67939

Chemical Properties

Cas. No. 1918142-34-3

Formula $C_{29}H_{27}F_2NO_7$

M.Wt 539.52

Solubility DMSO : 110 mg/mL (203.88 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

CFTR corrector 4 (Compound 13), an active (R,R)-form enantiomer, is a highly potent and orally active **cystic fibrosis transmembrane conductance regulator (CFTR)** corrector. CFTR corrector 4 can increase CFTR levels at the cell surface and have the potential for treatment of cystic fibrosis^[1].

CFTR corrector 4 possesses high potency and efficacy with a EC₅₀ of 0.028 μM in this HBE-TECC assay that assess the CFTR function, this lead resides in undesirable drug-like space with high molecular weight, and high HPLC Log D, indicating high lipophilicity.

HBE-TECC: (Human Bronchial Epithelial-Trans-Epithelial Current Clamp) assay^[1].

CFTR corrector 4 is tested its potency and efficacy in human bronchial epithelial (HBE) cells with a EC₅₀ value 130 nM in the cell surface expression (CSE-HRP) assay^[1].

[1]. Wang X, et al. Discovery of 4-[(2R,4R)-4-({[1-(2,2-Difluoro-1,3-benzodioxol-5-yl)cyclopropyl]carbonyl}amino)-7-(difluoromethoxy)-3,4-dihydro-2H-chromen-2-yl]benzoic Acid (ABBV/GLPG-2222), a Potent Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)

Caution: Product has not been fully validated for medical applications. For research use only.

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